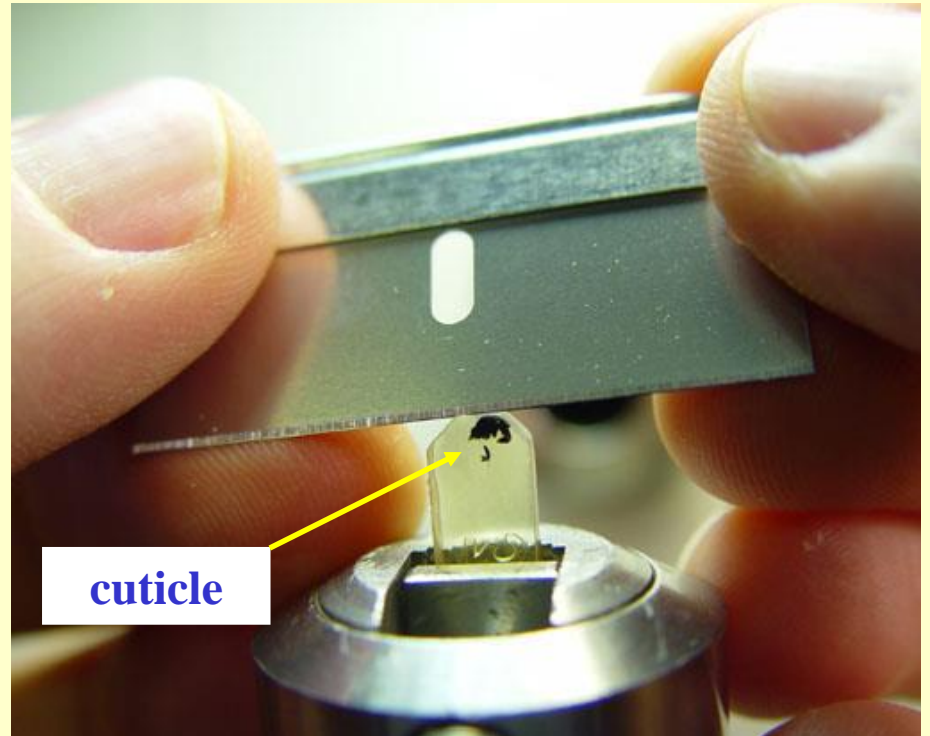
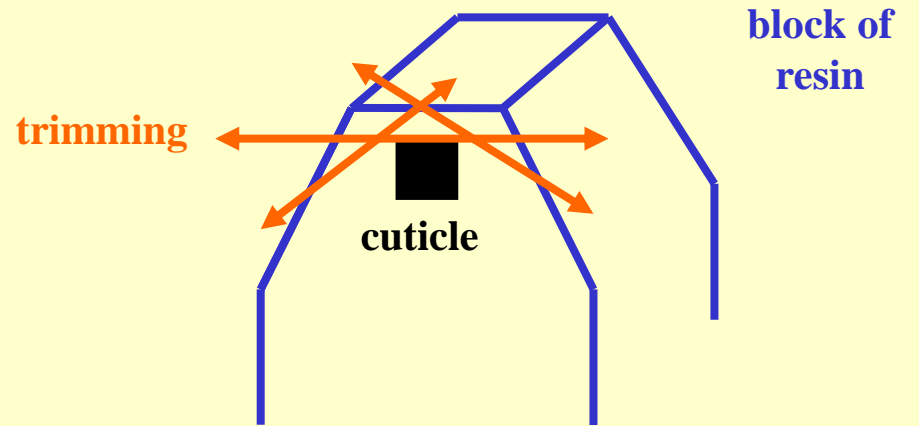


Appendix B. Some steps of the sectioning, staining and observation of the plant cuticles after their embedding in Epon resin

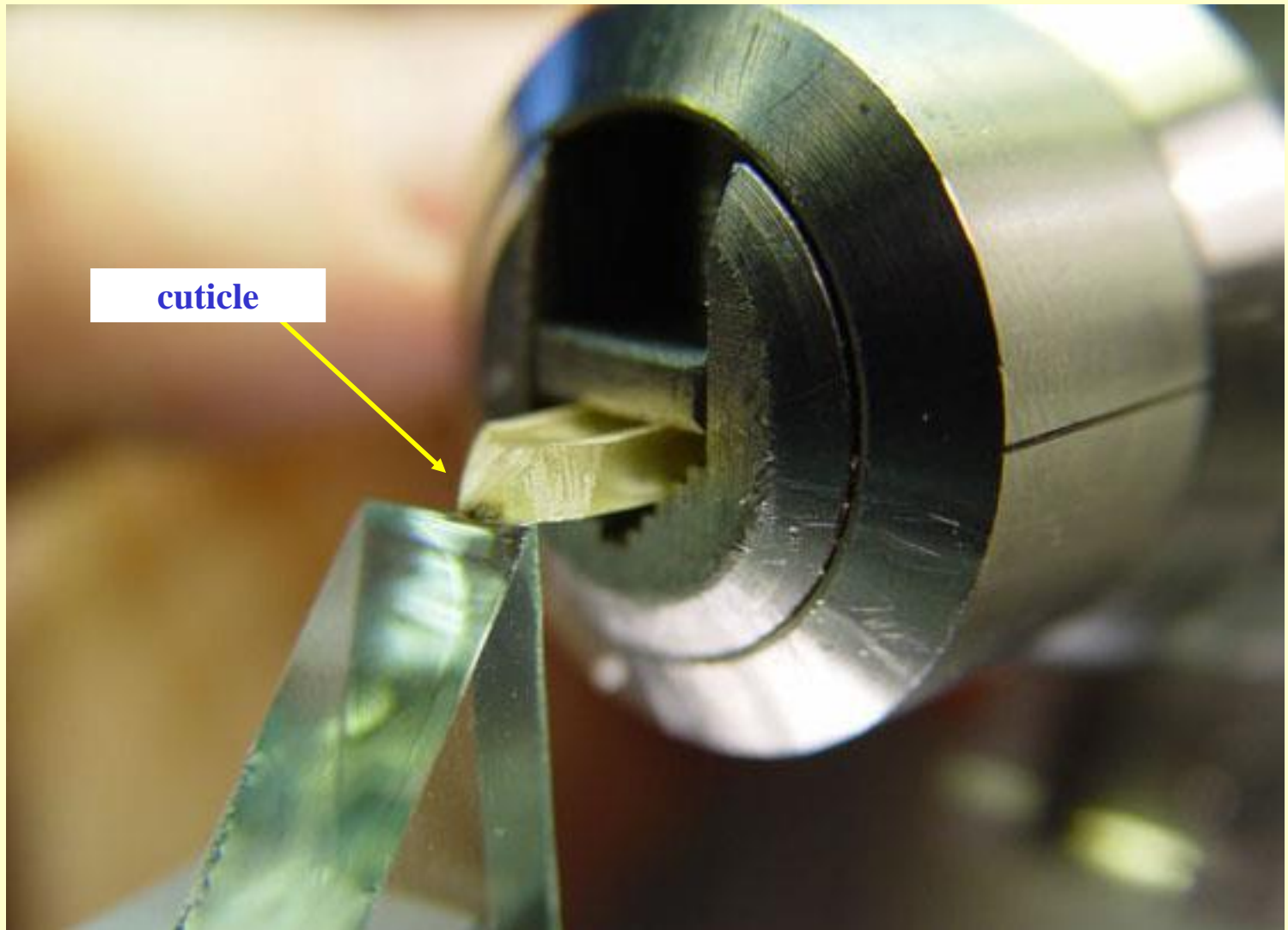
**with the help of centre technologique des microstructures (CTμ)
Lyon-1 University, France.**



trimming the block of resin with razor blade,
using WILD ultramicrotome

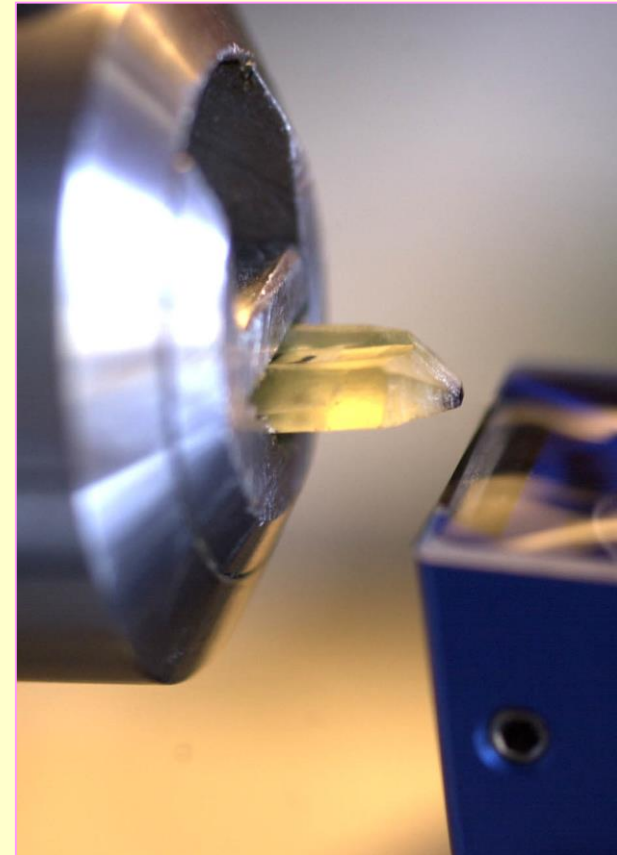
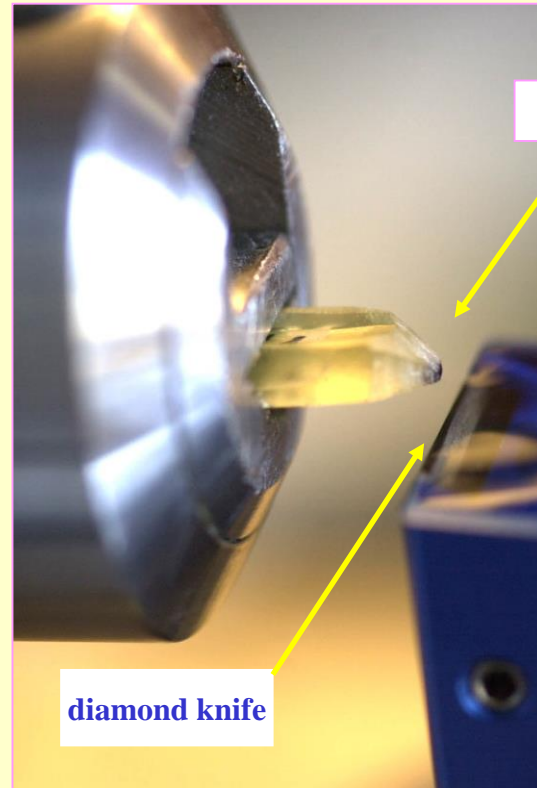
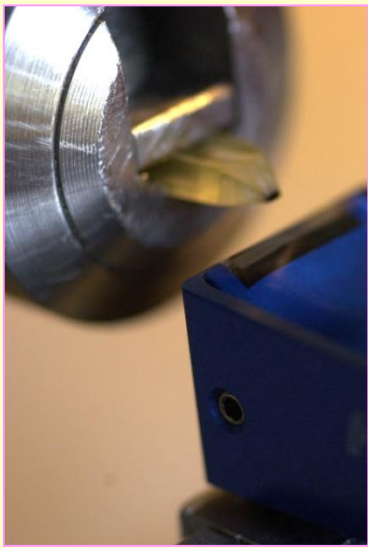


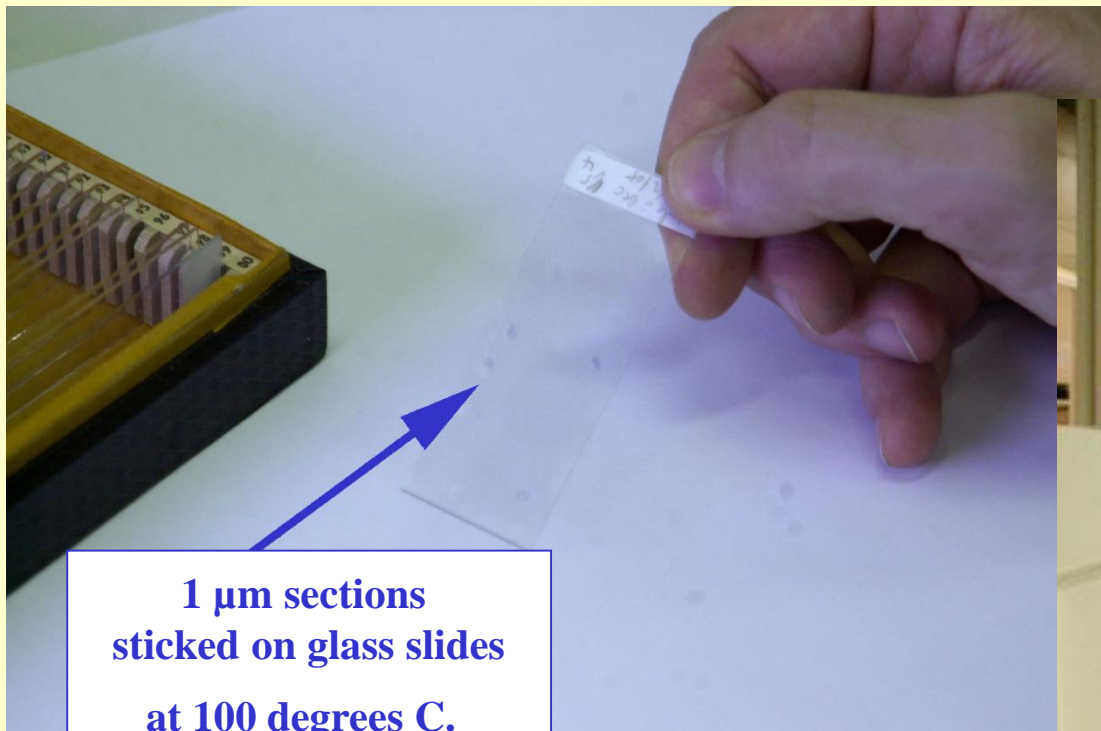
cuticle



possible use of glass knife technique, to get a very smooth surface

diamond approach for 1 μm sections



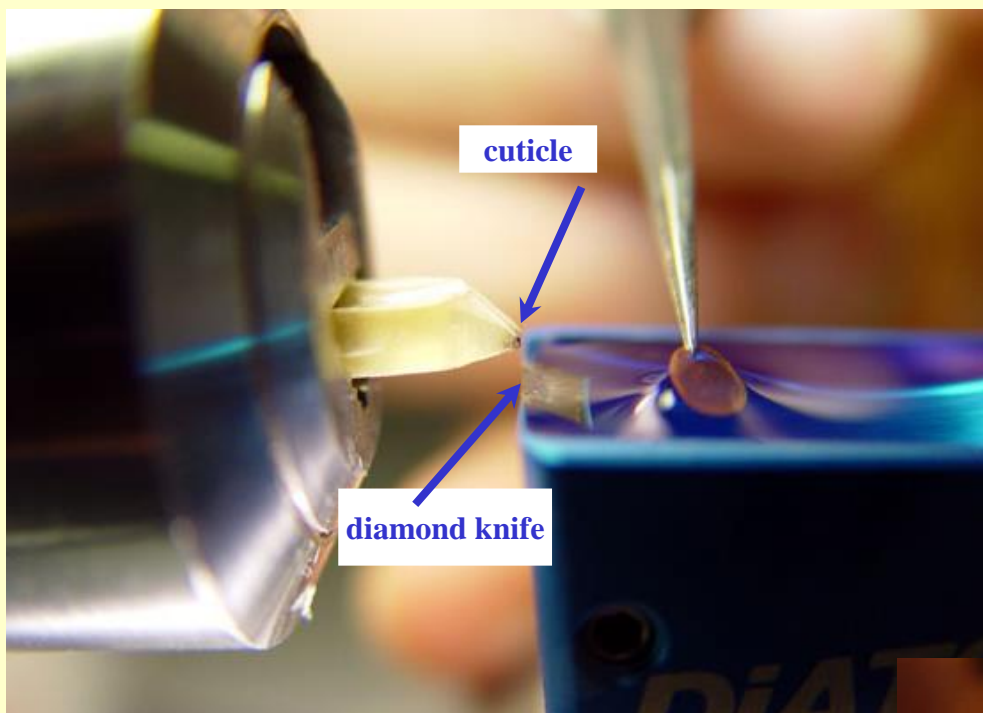


**1 μm sections
sticked on glass slides
at 100 degrees C.**

**selection of informative
zones, for instance
stomata**



selection with light microscope

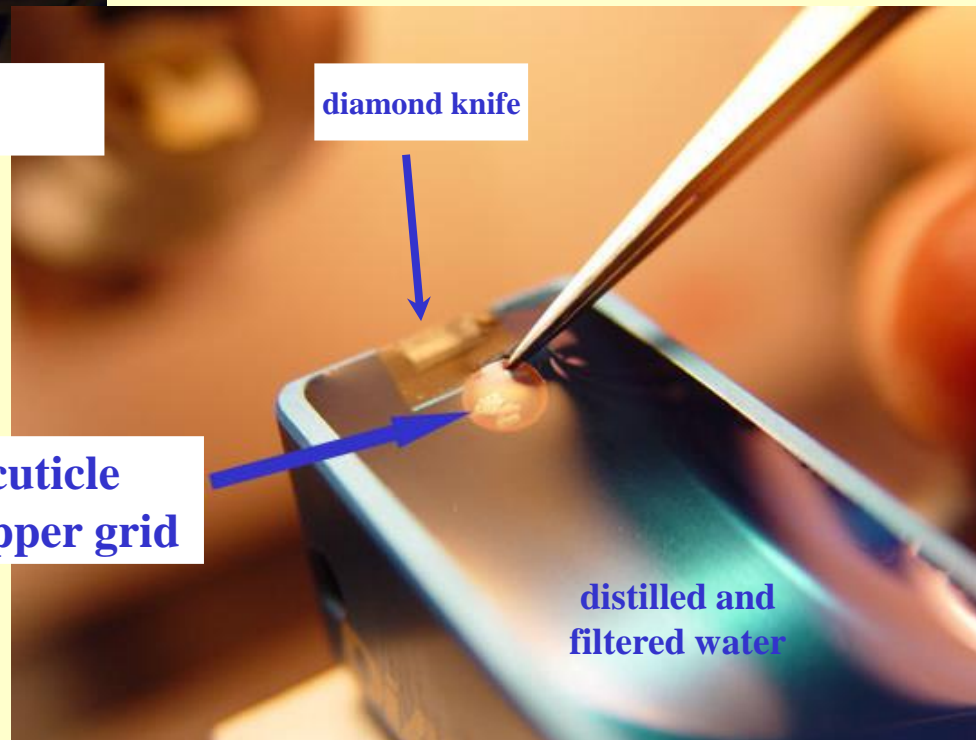


**diamond knife for ultra-thin sections (60-70 nm),
example with uncoated copper grids**

**uncoated
copper grid**



**section of cuticle
above the copper grid**



**distilled and
filtered water**

staining of ultra-thin sections
(60-70 nm), with uranyl
acetate and lead citrate, after
drying a few days



staining with uranyl acetate (15 minutes), then drying



staining with lead citrate (20 minutes), then drying



**observation of the cuticle sections with the
transmission electron microscope Philips CM 120**

